

**SECRETARY OF ENERGY ADVISORY BOARD
NATIONAL IGNITION FACILITY TASK FORCE MEMBERS**

**John P. McTague,
Chairman of the SEAB National Ignition Facility Task Force**

John McTague recently retired as the vice president for technical affairs of the Ford Motor Company. He is a member of the Secretary of Energy Advisory Board and also serves as Co-chair of the Department of Energy's Laboratory Operations Board. McTague was formerly vice president for research at Ford Motor Company. Prior to joining Ford, McTague served as Deputy Director of the Office of Science and Technology Policy, and as Acting Science Advisor to the President in the Executive Office of the President. He also was a professor of chemistry at the University of California at Los Angeles and an adjunct professor of chemistry at Columbia University. He was elected Alfred P. Sloan Research fellow, a NATO senior fellow, a John Simon Guggenheim Memorial fellow, a member of the National Academy of Engineering and a member of the President's Council of Advisors on Science and Technology (PCAST). He received a bachelor's degree from Georgetown University and his doctorate from Brown University.

**Andrew Athy,
Chairman of the Secretary of Energy Advisory Board**

Andrew Athy, Jr. is a partner in the Washington D.C. law firm of O'Neill, Athy and Casey. He previously served as counsel to the U.S. House of Representatives Energy and Commerce Subcommittee on Energy and Power (1978-1981). Prior to that he was an attorney in the Office of General Counsel at the Federal Election Commission (1976-1978), and Assistant Attorney General and Deputy Assistant Attorney General, Office of the Attorney General (Criminal Division) Commonwealth of Massachusetts (1973-1975). Athy received a bachelor's degree from the University of Pennsylvania, and his law degree from the Georgetown University Law Center.

Robert Byer

Dr. Robert Byer is the director of the center for Nonlinear Optical Materials and the director of the Hansen Experimental Physics Laboratory at Stanford University. In addition, he serves as a professor of physics at Stanford University. He served as Dean of Research at Stanford University from 1987 to 1993 when he stepped down to return to teaching and research. During his tenure as Dean of Research, Byer was responsible for the independent laboratories, centers and institutes that conducted multiple disciplinary research across departmental and school boundaries and represented approximately one-quarter of the \$300 million research volume at Stanford University. From 1985 to 1987, Byer served as Associate Dean of Humanities and Sciences and from 1981 to 1984 he was Chair of the Department of Applied Physics. In addition to his academic experience, Byer has worked as a consultant in the field of lasers for major companies including Westinghouse, General Motors, Boeing and TRW. Byer also is a founding member of the California Council on Science and Technology which was established by the major public and private research universities in the State of California to assist the State with scientific, technical and engineering issues. He has served on the National Science

Foundation Engineering Advisory Committee and is a member of the National Academy of Engineering and the Optical Society of America. Byer holds more than 35 patents in the field of lasers and nonlinear optics. He earned a bachelor's degree in physics from the University of California at Berkeley and a master's and doctorate in applied physics from Stanford University.

Gail Kendall

Dr. Gail Kendall is professor of the practice in the Department of Mechanical Engineering at Massachusetts Institute of Technology. Formerly, Dr. Kendall served as director for Strategic Science and Technology at the Electric Power Research Institute. In that position she has gained hands-on experience in the design and development of large-scale, multi-million dollar, cutting edge technology projects. In addition to her responsibilities directing the planning and implementing of new technologies, and coordinating government partnership for the institute, Kendall has overseen several panel evaluations of technical risk, progress, and achievements against planning milestones. Kendall earned her doctorate in mechanical engineering from the Massachusetts Institute of Technology; she also holds a master and bachelor's degree in mechanical engineering from the University of California at Berkeley.

Lawrence Papay

Dr. Lawrence Papay is the new sector vice president for the Integrated Solutions Sector of Science Applications International Corp. (SAIC). Prior to assuming his new post, Papay was the senior vice president and general manager of technology and consulting of Bechtel Group, Inc., a worldwide, high-technology systems engineering and construction firm. Prior to joining Bechtel, Dr. Papay served as senior vice president of Southern California Edison. He has a bachelor's degree in physics from Fordham University, a master's degree and doctorate in nuclear engineering from the Massachusetts Institute of Technology. Papay is a member of the National Academy of Engineering; the National Research Council Commission on Engineering and Technical Systems and its Board on Energy and Environmental Systems; the President's Council of Advisors on Science and Technology Task Force on Energy Research and Development; the National Science Foundation Industrial Panel; the American Nuclear Society; the Industrial Research Institute; and the Center for Resource Management. He is a registered professional engineer (nuclear) in California.

Burton Richter

Dr. Burton Richter is the Paul Pigott Professor of Physical Sciences, Stanford University and the Director Emeritus of the Stanford Linear Accelerator Center and is one of the world's leaders in the construction of large-scale science facilities. In 1976, Richter shared the Nobel Prize in Physics with MIT Professor Samuel Ting for independently discovering of a new elementary particle. Richter led the group that designed and built the Stanford Positron Electron Asymmetric Ring. Experiments conducted at SPEAR in 1973 - 1974 led to the discovery of a new kind of quark, a fundamental particle that is a constituent of neutrons and photons and other hadrons. As the author of more than 300 publications in high-energy physics, accelerators, and colliding beam systems, Richter is a leader in the physics community. Richter is also a member of the National Academy of Sciences; the American Academy of Arts and Sciences; the past president of American Physical Society; the Mitre Corp.'s JASON Group; and President of the International Union of Pure and Applied Physics (IUPAP). He received his bachelor's and doctorate degrees from the Massachusetts Institute of Technology. Finally, Secretary Richardson recently appointed Richter to the Secretary of Energy Advisory Board.

Rochus Vogt

Dr. Rochus Vogt is R. Stanton Avery Distinguished Service Professor and Professor of Physics at the California Institute of Technology (Caltech). From 1987 to 1994, he was the director of the Laser Interferometer Gravitational-Wave Observatory (LIGO) Project. Prior to leading the development and construction of that large laser project, Vogt was a Chief Scientist, Jet Propulsion Laboratory, 1977-78; Chairman, Division of Physics, Mathematics and Astronomy, 1978-83; Acting Director, Owens Valley Radio Observatory, 1980-81; Vice President and Provost, 1983-87 at Caltech. He received a master's degree and a doctorate in Physics from the University of Chicago.

John Warlaumont

Dr. John Warlaumont is the director of Silicon Technology and Advance Semiconductor Technology Laboratory for IBM's Research and Microelectronics Divisions. He is an expert in microcontamination technologies who has orchestrated the construction of several clean room projects. Warlaumont also led various IBM projects in silicon innovation and modeling and X-ray lithography and optical lithography enhancement techniques. Warlaumont started his career researching high power bombardment and soft x-ray sources and the application of x-ray lithography. He received his degree in physics from Cornell University.